## PERISTALTIC PRECISION METERING DEVICE, SYSTEM AND METHOD OF USE THEREOF

## Abstract of the Disclosure

The invention relates generally to a peristaltic precision metering device, system and method of using the same. Disclosed is a metering device which includes a metering element that can engage with a compressible material line, wherein the metering device can place a selectable peristaltic effect upon the material in the line. Also disclosed is a precision metering system that includes a material delivery unit comprised of a material reservoir, material dispensing end, and a compressible material line connecting the two; a base; and, a metering element that engages the material line between itself and the base; and the metering element places a peristaltic effect on the material in the line, from which a selectable unit of material is caused to be dispensed from the dispensing end. Also disclosed is a metering device comprised of a slidable or rotatable metering element that can engage with a compressible material line, and when slid or rotated places a peristaltic effect upon material in the line, further causing precision dispensing of a unit of material. Also disclosed is a metering system comprised of a metering device similar to above and a control system attached to the metering element and a robotic positioning system also attached to the metering device. Finally disclosed is a method of precision material dispensing comprised of providing a metering element and base, positioning a compressible material line between the metering element and base, moving one of the base, metering element, material line, or combination thereof, thereby causing a

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peristaltic effect upon material in the line, and dispensing a precise unit of material from the device.